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PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0851-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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SHEET OF

Complete if Known

Application Number: 10/645,426

Filing Date: 8/21/03

First Named Inventor: M. Seul, et al.

Group Art Unit:

Examiner Name:

Attorney Docket Number: LEAPS C11

Examiner Initials	U.S. Documents		U.S. Patent Document Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
	Number			
PJD	US 3,571,614 A		Carreira	04/13/1997
PJM	US 5,510,270 A		Fodor, et al.	04/23/1996

FOREIGN DOCUMENTS

Examiner Initials	Foreign Patent Documents			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Translation
	Office	Number	Kind Code (if known)			
PJD		WO 96 07917 A		Nanogen	03/14/1996	
		WO 91 19023 A		Savin Corp.	12/12/1991	
PJM		GB 2 058 379 A		AGFA GEVAERT	04/08/1981	

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume- issue number(s).	T2
PJD		YEH, S.R., et al. "Assembly of ordered colloidal aggregates by electric-field-induced fluid flow". <i>Nature</i> , Mar 6, 1997: 57-59. Vol 386, No 6620	
Examiner Signature			Date Considered
			4/15/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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PTO/SB/08A (08-00)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) SHEET <input type="text"/> OF <input type="text"/>	Complete if Known	
	Application Number:	
	Filing Date:	
	First Named Inventor: M. S. ul, et al.	
	Group Art Unit:	
	Examiner Name:	
Attorney Docket Number:		

Examiner Initials	U.S. Documents		U.S. Patent Document Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
	Number			
PMD	6,083,763		Balch	7/4/2000
	6,172,218 B1		Brenner	1/9/2001
	5,415,835		Brueck, et al.	5/16/1995
	6,429,027 B1		Chee et al.	8/6/2002
	5,532,128		Eggers et al.	7/2/1996
	5,516,635		Ekins et al.	5/14/1996
	5,961,923		Nova et al.	10/5/1999
PM	5,770,358		Dower	7/23/1998

FOREIGN DOCUMENTS						
Examiner Initials	Foreign Patent Documents			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Translation
	Office	Number	Kind Code (if known)			
PM		WO 00/04372	Anstyn, et al.	1/27/2000		
		WO 99/60170	Paier, et al.	11/25/1999		
		WO 98/40726	Walt, et al.	2/8/2000		
		WO 00/03004	Fedder, et al.	1/20/2000		
PM		WO 00/75373	Walt et al.	12/14/2000		

Examiner Signature		Date Considered	4/15/05
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FORM PTO-1449 INFORMATION DISCLOSURE CITATION	Attorney Docket:	Serial No.:
	Applicant:	
	Filing Date:	
	Group Art Unit:	

U.S. PATENT DOCUMENTS

Examiner Initial	Patent Number	Publication Date	Name	Class	Sub-Class	Filing Date
P00	5,281,370	01/25/94	Asher et al.			
	5,516,635	05/15/96	Ekins et al.			
	5,518,883	05/21/96	Soini			
	5,415,835	05/16/95	Brueck			
	5,604,097	02/18/97	Brenner			
	5,800,992	09/01/98	Fedor			
	6,023,540	02/08/00	Walt et al.			
	6,327,410	12/04/01	Walt et al.			
	6,266,459	07/24/01	Walt et al.			
P01	6,429,027	08/06/02	Chee et al.			

FOREIGN PATENT DOCUMENTS

Examiner Initial	Patent Number	Publication Date	Country	Class	Sub-Class	Translation
P00	WO 93/02360	02/04/93	PCT			<input type="checkbox"/> Yes <input type="checkbox"/> No
	WO 96/03212	02/08/96	PCT			<input type="checkbox"/> Yes <input type="checkbox"/> No
	1,248,873	01/17/89	Canada			<input type="checkbox"/> Yes <input type="checkbox"/> No
P00	WO 93/06121	04/01/93	PCT			<input type="checkbox"/> Yes <input type="checkbox"/> No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, etc.)

Materials from Freedom of Information Act pertaining to David R. Walt

Examiner: <u>[Signature]</u>	Date Considered: <u>4/15/05</u>
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.	

FORM PTD-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO.: ...	SERIAL NO.:
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT(S): SEUL, Michael	
				FILING DATE: 5	GROUP: 1

U.S. PATENT DOCUMENTS											
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE					
RSD	AA 4 4 0 0 0 5 2	2/12/85	Fuhrer	422	52	8/30/82					
	AB 4 0 4 7 5 4 4	3/3/87	Nicola et al.	438	518	8/25/85					
	AC 4 0 2 2 7 4 6	4/18/89	Walt	438	528	8/25/88					
	AD 4 0 0 4 3 7 3	2/18/91	Stavropoulos et al.	435	8	7/25/89					
	AE 5 0 0 2 8 6 7	3/26/91	Macevitz	435	8	10/24/88					
	AF 5 0 2 6 5 4 5	7/2/91	Soud	438	501	8/8/88					
	AG 5 1 0 5 3 0 5	4/14/92	Batzig	358	368	1/10/91					
	AH 5 1 1 4 8 6 4	5/19/92	Walt	438	528	8/19/89					
	AI 5 1 3 2 2 4 2	7/21/92	Chung	438	501	1/13/89					
	AJ 5 1 3 2 0 9 7	7/21/92	Van Deusen et al.	422	82.09	8/4/90					
RSD	AX 5 1 4 3 8 5 3	8/1/92	Walt	438	501	2/2/89					

FOREIGN PATENT DOCUMENTS									
DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION				
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RSD	AL 0 2 8 8 7 8 4	6/8/88	EP	C12D	1/68		X		
	AM 0 4 7 8 3 1 9	4/1/92	EP	C12D	1/68		X		
	AN 0 7 2 3 1 4 6	7/24/88	EP	G01N	21/84		X		
RSD	AO 8 8 1 1 1 0 1	11/18/89	PCT	G01N	33/548		X		
	AP 8 3 0 2 3 8 0	2/4/93	PCT	G01N	33/536		X		

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)	
RSD	AO Peterson, et al. "Fiber optic pH probe for physiological use." Anal. Chem. Vol. 52, 884-889 (1980)
AS	Peterson, et al. "Fiber-Optic Sensors for Biomedical Applications." Science, 13: 123-127 (1984).
AS	Fuh, et al. "Single Fiber Optic Fluorescence pH Probe." Analyst, 112: 1159-1163 (1987).

EXAMINER 	DATE CONSIDERED 4/15/05
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* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 608; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.:

SERIAL NO.:

LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT(S): SEUL, Michael

FILING DATE: 7/1/93

GROUP:

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PJD	BA	5 1 8 4 3 0 0	3/16/93	Chuang	427	213.31	11/8/89
	BB	5 2 4 4 8 1 3	8/14/93	Walt et al.	436	172	4/20/92
	BC	5 2 4 4 8 3 6	8/14/93	Walt et al.	422	82.07	1/25/91
	BD	5 2 5 0 2 8 4	10/5/93	Walt et al.	422	82.07	12/7/92
	BE	5 2 5 2 4 8 4	10/12/93	Walt	438	528	3/30/92
	BF	5 2 5 4 4 7 7	10/19/93	Walt	436	172	8/19/91
	BG	5 2 8 8 7 4 1	3/28/94	Walt et al.	250	227.23	1/13/93
	BH	5 3 0 8 8 1 8	4/28/94	Prober et al.	435	8	1/18/92
	BI	5 3 2 0 8 1 4	8/14/94	Walt et al.	422	82.07	11/25/92
PJD	BJ	5 3 0 2 8 5 3	11/8/94	Carr et al.	438	165	5/6/92
	BK	5 4 0 5 7 8 4	4/11/95	Van Hoegedoren	438	523	2/25/93

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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PJD	BL	8 3 0 8 1 2 1	4/1/93	PCT	C07H	21/00		x
	BM	8 3 2 4 8 1 7	12/9/93	PCT	C07X			x
PJD	BN	8 7 1 4 0 2 8	4/17/97	PCT	G01N	15/10		x
	BO							
	BP							

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

PJD	BO	Barnard, et al., "A fibre-optic chemical sensor with discrete sensing sites," Nature, vol. 353: 338-340 (1991).
	BR	Campan, et al., "Colored and Fluorescent Solid Supports," Innovation and Perspectives in Solid-Phase Synthesis, Ed. E. Birmingham (Mayflower, London), pp. 469-472 (1994).
PJD	BS	Pope, "Fiber optic chemical microensors employing optically active silica microspheres," SPIE, vol. 2388: 245-258 (1995).

EXAMINER

DATE CONSIDERED

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (REV. 7-80)	U. S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	JACKET NO.	SERIAL NO.
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		FILING DATE: October 17, 1991	GROUP:

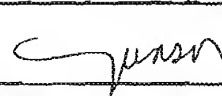
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PTD	CA	5	8	8	0	7	2	2	1/2/88	Kleber et al.	428	441	5/1/84
	CB	5	8	1	4	8	2	4	8/28/88	Wahl et al.	438	518	12/14/86
	CC	5	4	8	8	8	8	1	3/3/88	Pugs	250	227.21	1/3/84
	CD	5	8	1	2	4	8	0	4/20/88	Wahl et al.	438	171	8/11/84
	CE	5	8	8	8	5	2	4	10/18/88	Wahl et al.	435	8	4/12/84
	CF	5	8	8	7	8	2	2	10/22/88	Lehman	438	518	11/5/83
	CG	5	8	3	3	7	2	4	8/27/87	Lehman et al.	358	445	8/29/85
	CH	5	8	3	3	8	7	8	8/27/87	Wahl et al.	385	118	11/29/85
	CI	5	8	6	0	4	8	8	7/22/87	Lehman et al.	530	334	8/18/81
PTD	CJ	5	8	8	2	0	8	8	7/29/87	Madon	428	403	1/25/85
	CK	5	8	7	4	8	9	8	10/7/87	Lehman et al.	435	7.82	9/30/87

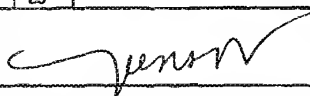
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CL												
CM												
CN												
CO												
CP												

OTHER PRIOR ART:

Person

4/15/05

FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO.: 42-11-1011		SERIAL NO.: 1									
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT(S): SEUL, Michael											
				FILING DATE: October 17, 2000		GROUP: 1									
U.S. PATENT DOCUMENTS															
EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE		
		1	2	3	4	5	6	7							
PTO	DA	5	8	8	0	8	8	4	11/25/97	Pinkel et al.	422	68.1	5/23/95		
	DB	5	7	0	0	8	8	7	12/23/97	Klainer et al.	528	15	5/30/95		
	DC	5	7	7	8	8	7	8	7/14/98	Leland et al.	422	52	6/5/95		
	DD	5	8	3	8	0	2	1	8/17/98	Kansen et al.	422	55	1/23/97		
	DE	5	8	8	1	8	2	3	10/5/98	Nara et al.	422	68.1	8/30/98		
	DF	5	8	8	5	4	5	2	10/12/98	Kovacs	438	149	7/9/98		
	DG	8	0	4	8	8	8	0	4/11/00	Heiler et al.	435	8	5/14/97		
	DH	8	0	8	0	5	4	5	7/18/00	Wehstadius et al.	435	8	3/6/97		
	DI	8	0	8	0	8	1	2	7/18/00	Lebl et al.	530	300	1/23/98		
	DJ	8	2	0	0	7	3	7	3/13/01	Walt et al.	430	320	8/24/95		
DK															
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		1	2	3	4	5	6	7					YES	NO	
	DL														
	DM														
	DN														
	DO														
	DP														
OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, Etc.)															
PTO	DD	Egner, et al., "Tagging in combinatorial chemistry: the use of coloured and fluorescent beads," Chem. Commun. pp. 735-738 (1997)													
	DR	Fulton, et al., "Advanced multiplexed analysis with the FlowMatrix system," Clinical Chemistry, vol. 43:9, pp. 1748-1758 (1997).													
PTO	DS	Scott et al., "Properties of fluorophores on solid phase resins; implications for screening, encoding and reaction monitoring," Bioorganic & Medicinal Chemistry Letters, 7:12, pp. 1567-1572 (1997).													
EXAMINER 										DATE CONSIDERED 4/15/05					
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 509; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.															

FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO.: 2004-00000000		SERIAL NO.: 00000000	
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT(S): SEUL, Michael			
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EJ							
EK							
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						YES	NO
EL							
EM							
EN							
EO							
EP							
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
PTD	EQ	Healey et al, "Fiberoptic DNA sensor array capable of detecting point mutations," Analytical Biochemistry, vol. 251, pp. 270-279 (1997).					
PTD	ER	"Microsphere Selection Guide," Bangs Laboratories, Inc. (Fisher, IN) (September 1998)					
	ES						
EXAMINER				DATE CONSIDERED			
				4/15/05			
<small>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small>							

FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO.: 1		SERIAL NO.: 1000000									
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT(S): SEUL, Michael											
				FILING DATE: 1		GROUP: 1001									
U.S. PATENT DOCUMENTS															
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PTO		4	7	1	7	6	5	5		01/05/88	Fuhrlyer	435	7	10/15/84	
		5	5	7	3	8	0	8		11/12/88	Singer et al.	435	8	05/20/94	
		5	5	8	5	0	6	8		12/17/88	Zanussi et al.	422	100	11/10/94	
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		5	7	2	3	2	1	8		03/03/88	Maugland et al.	428	402	06/07/95	
		5	7	4	4	3	0	5		04/28/88	Fodor et al.	435	8	06/06/95	
		5	8	0	7	7	5	5		08/15/88	Elkins	438	518	05/23/95	
		5	8	3	7	5	5	1		11/17/88	Elkins	438	518	12/23/94	
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OTHER PRIOR ART (Including Author, Title, Date, Patent Pages, Etc.)															
PTO	AR	Micheletto et al., <i>Leopold</i> , vol. 11, 3333-3338 (1895)													
PTO	AS	Nagayama et al., <i>Phase Transitions</i> , vol. 45, 185-203 (1893)													
PTO	AT														
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LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary!)				APPLICANT(S): SEUL, Michael			
				FILING DATE:		GROUP:	
U.S. PATENT DOCUMENTS							
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PTD	AA 3 9 8 8 5 2 5	12/21/76	Ughs	350	180	08/21/75	
	AB 4 0 7 5 0 1 3	02/21/78	Ward et al.	88	1.5	09/13/76	
	AC 4 4 5 6 5 1 3	06/26/84	Kawal et al.	204	180	08/25/82	
	AD 4 5 7 5 4 0 7	03/11/86	DBno	204	87	10/24/84	
	AE 4 5 9 1 5 5 0	05/27/88	Hefeman et al.	435	4	04/05/84	
	AF 5 4 4 4 3 3 0	08/22/85	Leventis et al.	313	506	02/18/93	
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PTD	AL 9 6 0 4 5 4 7	02/15/88	PCT	G01N	27/00		x
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
PTD	AR	Yeh, et al., "Assembly of ordered colloidal aggregates by electric-field-induced fluid flow," <i>Nature</i> , vol. 388.6: 57-59 (1997)					
PTD	AS	Giersig et al., "Formation of ordered two-dimensional gold colloid lattices by electrophoretic deposition," <i>J. Phys. Chem.</i> , vol. 97: 6334-6336					
PTD	AT	Seid et al., "Scale transformation of magnetic bubble arrays: coupling of topological disorder and polydispersity," <i>Science</i> , vol. 282: 558-560 (1993)					
EXAMINER				DATE CONSIDERED			
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*EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 909; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO.: 111, 111, 111	SERIAL NO.: 111, 111	
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT: SEUL, Michael		
				FILING DATE: October 11, 2000 GROUP: 1		
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	BI					
OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, Etc.)						
PMD	BJ	Tsu et al. "Field-Induced Layering of Colloidal Crystals," <i>Science</i> , vol. 272: 708-709 (1998)				
	BK	Seul et al. "Domain Shapes and Patterns: The Phenomenology of modulated Phases," <i>Science</i> , vol. 267: 478-483 (1995)				
	BL	Schena et al. "Quantitative Monitoring of Gene Expression Patterns with a Complementary DNA Microarray," <i>Science</i> , vol. 270: 487-490 (1995)				
	BM	Heub et al. "Single Molecule Fluorescence Burst Detection of DNA Fragments Separated by Capillary Electrophoresis," <i>Analytical Chemistry</i> , vol. 67 (No. 18): 3253-3258 (1995)				
	BN	Richetti, et al., <i>J. Physique Lett.</i> , vol. 45: 1-1137 to 1-1143 (1984)				
PMD	BO	See, "MIS Diode and Charge-Coupled Devices," <i>The Physics of Semiconductors</i> , Chapter 7, pp. 362-430 (2nd Edition (Wiley Interscience 1981))				
	BP					
	BD					
	BR					
EXAMINER <i>gensen</i>				DATE CONSIDERED <i>4/15/05</i>		
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.						